F-7265

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	:	Masatoshi ARIKAWA et al.
Serial No.	:	(Not yet known)
Filed	:	Concurrently herewith
For	:	PSEUDO 3-D SPACE REPRESENTATION SYSTEM, PSEUDO 3-D SPACE CONSTRUCTING SYSTEM, GAME SYSTEM AND ELECTRONIC MAP PROVIDING SYSTEM
Group Art Unit	:	(Not yet known)
Examiner	:	(Not yet known)

Assistant Commissioner
for Patents
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Sir:

Preliminary to examination, please amend the above-identified patent application as follows:

IN THE CLAIMS:

Please amend the claims as shown rewritten below with amendments effected therein. Appendix I is attached hereto having marked versions of said claims with amendments indicated by brackets and underlining.

19. (Amended) A pseudo 3-D space constructing system, which has a server device functioning as a pseudo 3-D space representation system defined in any one of claims 1 to 4 and connected to a number of client devices through a network, wherein the server device has an image database storing a plurality of images, provides function of the pseudo 3-D space representation system to the client devices through the network, receives from the client device an image associated with a specified area of an image stored in the database by using the pseudo 3-D space representation system and stores said image into the database.

20. (Amended) A game system for playing a game for specifying an area on an image by using the pseudo 3-D space representation system defined in any one of claims 1 to 4, further specifying an area of another image associated with the specified area and repeating the same until all specified images are linked, which has an image database storing a plurality of image groups each composed of a plurality of images associated with each other in such a way that areas of images can be linked only in a specified order and which presents a group of images for

users to specify areas one on each of two images, links two specified areas, adds points of the links and presents remaining images of the group excepting two images which areas were specified and repeats the same steps.

21. (Amended) An electronic map display system, wherein a pseudo 3-D space representation images created by using the pseudo 3-D space representation system defined in any one of claims 1 to 4 is embedded in a corresponding position on an electronic map or liked thereto and displayed thereon.

22. (Amended) An electronic map providing system equipped with a server device having an electronic map database containing a pseudo 3-D spatial electronic map prepared by embedding in corresponding positions thereof or linked thereto a pseudo 3-D space representation images created by using a pseudo 3-D space representation system defined in any one of claims 1 to 4, wherein the server device connected to a number of client devices through a network retrieves the pseudo 3-D special electronic map in the electronic map database in response to access from the client device and provides it to the client device.

23. (Amended) A navigation system equipped with a server device including an electronic map database containing a pseudo 3-D spatial electronic map prepared by embedding in corresponding positions thereon or linked thereto

a pseudo 3-D space representation image created by using a pseudo 3-D space representation system defined in any one of claims 1 to 4, wherein the server device is connected to a number of client devices capable of detecting its present position through network and, in response to an access from any client device indicating its current position, it retrieves in the electronic map database and provides the client device with pseudo 3-D spatial electronic map corresponding to the current position, thus navigating the user of the client device.

24. (Amended) A navigation system including an electronic map database containing a pseudo 3-D spatial electronic map prepared by embedding in corresponding positions thereon or linked thereto a pseudo 3-D space representation image created by using a pseudo 3-D space representation system defined in any one of claims 1 to 4, which navigates a user by detecting a current position, searching an electronic map corresponding to the detected current position in the electronic database and displaying the pseudo 3-D spatial electronic map on a display screen of the user device.

30. (Amended) A program for causing a computer to work as a pseudo 3-D space representation system as defined in any one of claims 1 to 4.

31. (Amended) A program for causing a computer to carry out a pseudo 3-D space representing method as defined in claim 25 or 26.

32. (Amended) A computer readable recording medium with a recorded program as defined in claim 29.

Please add new claims 33 to 42 as follows:

--33. A program for causing a computer to work as a pseudo 3-D space constructing system as defined in claim 19.

34. A program for causing a computer to work as a game system as defined in claim 20.

35. A program for causing a computer to work as an electronic map display system as defined in claim 21.

36. A program for causing a computer to work as an electronic map providing system as defined in claim 22.

37. A program for causing a computer to work as a navigation system as defined in claim 23.

38. A program for causing a computer to work as a navigation system defined in claim 24.

39. A program for causing a computer to carry out a pseudo 3-D space constructing method as defined in claim 27.

40. A program for causing a computer to carry out an electronic map providing method as defined in claim 28.

41. A program for causing a computer to carry out a navigation method as defined in claim 29.

42. A computer readable recording medium with a recorded program as defined in claim 30.--

REMARKS

This Preliminary Amendment is being submitted to avoid having a multiple dependent claim depend on another multiple dependent claim.

It is respectfully requested that the first Official Action be directed to the application as amended herein.

Respectfully submitted,

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FJJ/cj
Enc. Appendix I (Amended Claims with Amendments Indicated Therein by Brackets and Underlining)

APPENDIX I

AMENDED CLAIMS WITH AMENDMENTS INDICATED THEREIN
BY BRACKETS AND UNDERLINING

19. (Amended) A pseudo 3-D space constructing system, which has a server device functioning as a pseudo 3-D space representation system defined in any one of claims 1 to [18] 4 and connected to a number of client devices through a network, wherein the server device has an image database storing a plurality of images, provides function of the pseudo 3-D space representation system to the client devices through the network, receives from the client device an image associated with a specified area of an image stored in the database by using the pseudo 3-D space representation system and stores said image into the database.

20. (Amended) A game system for playing a game for specifying an area on an image by using the pseudo 3-D space representation system defined in any one of claims 1 to [18] 4, further specifying an area of another image associated with the specified area and repeating the same until all specified images are linked, which has an image database storing a plurality of image groups each composed of a plurality of images associated with each other in such a way that areas of images can be linked only in a specified order and which presents a group of images for users to specify areas one on each of two images, links two specified areas, adds

points of the links and presents remaining images of the group excepting two images which areas were specified and repeats the same steps.

21. (Amended) An electronic map display system, wherein a pseudo 3-D space representation images created by using the pseudo 3-D space representation system defined in any one of claims 1 to [18] 4 is embedded in a corresponding position on an electronic map or liked thereto and displayed thereon.

22. (Amended) An electronic map providing system equipped with a server device having an electronic map database containing a pseudo 3-D spatial electronic map prepared by embedding in corresponding positions thereof or linked thereto a pseudo 3-D space representation images created by using a pseudo 3-D space representation system defined in any one of claims 1 to [18] 4, wherein the server device connected to a number of client devices through a network retrieves the pseudo 3-D special electronic map in the electronic map database in response to access from the client device and provides it to the client device.

23. (Amended) A navigation system equipped with a server device including an electronic map database containing a pseudo 3-D spatial electronic map prepared by embedding in corresponding positions thereon or linked thereto a pseudo 3-D space representation image created by using a pseudo 3-D space

representation system defined in any one of claims 1 to [18] 4, wherein the server device is connected to a number of client devices capable of detecting its present position through network and, in response to an access from any client device indicating its current position, it retrieves in the electronic map database and provides the client device with pseudo 3-D spatial electronic map corresponding to the current position, thus navigating the user of the client device.

24. (Amended) A navigation system including an electronic map database containing a pseudo 3-D spatial electronic map prepared by embedding in corresponding positions thereon or linked thereto a pseudo 3-D space representation image created by using a pseudo 3-D space representation system defined in any one of claims 1 to [18] 4, which navigates a user by detecting a current position, searching an electronic map corresponding to the detected current position in the electronic database and displaying the pseudo 3-D spatial electronic map on a display screen of the user device.

30. (Amended) A program for causing a computer to work as a pseudo 3-D space representation system as defined in any one of claims 1 to 4 [18 or as a pseudo 3-D space constructing system defined in claim 19 or as a game system defined in claim 20 or as an electronic map display system defined in claim 21 or as an electronic map providing system defined in claim 22 or as a navigation

system defined in claim 23 or 24].

31. (Amended) A program for causing a computer to carry out a pseudo 3-D space representing method as defined in claim 25 or 26 [or a pseudo 3-D space constructing method as defined in claim 27 or as an electronic map providing method as defined in claim 28 or as a navigation method as defined in claim 29].

32. (Amended) A computer readable recording medium with a recorded program as defined in claim 29 [or 30].

Please add new claims 33 to 42 as follows:

--33. A program for causing a computer to work as a pseudo 3-D space constructing system as defined in claim 19.

34. A program for causing a computer to work as a game system as defined in claim 20.

35. A program for causing a computer to work as an electronic map display system as defined in claim 21.

36. A program for causing a computer to work as an electronic map providing system as defined in claim 22.

37. A program for causing a computer to work as a navigation system as defined in claim 23.

38. A program for causing a computer to work as a navigation system defined in claim 24.

39. A program for causing a computer to carry out a pseudo 3-D space constructing method as defined in claim 27.

40. A program for causing a computer to carry out an electronic map providing method as defined in claim 28.

41. A program for causing a computer to carry out a navigation method as defined in claim 29.

42. A computer readable recording medium with a recorded program as defined in claim 30.--